EDM for Energy
Workflow Automation and Data Management Solutions for the Energy Industry

ihsmarkit.com/edm-for-energy
EDM overview

The oil and gas industry is undergoing a digital transformation during a period of unprecedented economic and market volatility. Faced with aging technology, manual processes and increased cost scrutiny, E&P companies are demanding better solutions.

EDM is a cloud-based, workflow automation platform that has robust data management capabilities at its core. EDM leverages IHS Markit’s deep industry knowledge and experience as a provider of both data and technology. By optimizing workflows and delivering trusted data for decision-making and analytics, EDM increases operational efficiency; breaks down technological and functional siloes; and enables cross-company collaboration.

Key stats

- 30+ Energy clients
- 250+ EDM clients across all verticals
- 40+ Clients using cloud-based managed service
- 9 weeks = fastest go-live
- 300+ EDM employees
- Global reach

Client types

- Independent oil and gas companies
- Service companies
- National oil companies
- Global majors
- Energy traders

What our clients say

EDM for Energy has made the data more accessible than ever before and, as users’ confidence in the data has increased, so has their consumption.

Centennial Resource Development

We are implementing EDM for Energy to improve data quality and consistency and to support better informed decision-making across our business.

California Resources Corporation
How EDM works

• Takes data from multiple sources in multiple formats
• Normalizes the data into common formats
• Applies customer-specified technical and business rules to assess the quality of the data
• Matches similar and related data
• Creates a master blended source of data

• Makes all cleansed data available to view, query and analyze
• Automates functional workflows and enables end-users
• Distributes cleansed data to any system or person that uses the data
• Includes bi-directional interfaces with most industry applications

Benefits

• Automates repetitive, manual workflows to improve efficiency
• Supports superior analytics with consistent, quality-assured data
• Provides flexibility to support any data entities and relationships
• Allows automated and on-demand synchronization of data across disciplines
• Provides true interoperability across technical platforms
• Democratizes data and makes it available across all functions

• Facilitates user- and group-level security of protected data assets
• Allows complex rules-based data alignment
• Manages data exceptions and inconsistencies with rules engine
• Expedites time to market through cloud-based deployment
• Integrated with IHS Markit and third-party applications
• Leverages IHS Markit’s data, technology and industry expertise
Solutions

EDM can be deployed to solve a wide range of workflow automation and data management challenges. The most common solutions include:

Data Hub
- Central connectivity hub between all data and applications within the company
- Configure relationships across all data entities to provide a single holistic view point into your data universe
- Manage by exception with automated quality controls
- Ensure all users are working from the same validated underlying data
- Support cross-function collaboration by distributing validated, mastered data across multiple applications in a consistent, audited environment
- Maintain historical views of data and full data lineage

Well Master
- Define a blended, corporate-wide well master for all situations including child data types
- Apply complex matching criteria across multiple sources and formats
- Normalize geographical and coordinate data and units of measures on a global scale
- Leverage industry standard data models (including PPDM 3.8 and 3.9) or a workflow-specific model
- Match data at the attribute level with source prioritization, data quality verifications and cross-source reference normalization

Log Management
- Use an intuitive interface to unlock the value of log data assets and accelerate discovery
- Quickly query aspects of the data, such as curve types, data coverage, source and audit history
- Reclassify mnemonics, add audit tags or normalize curve values to make data user-ready
- Leverage a centralized metadata repository to accelerate the mapping, classification, validation and integration of log data
Rec&Sync
• Monitor and reconcile data between petrotechnical application projects
• Synchronize master attribute values on both the inter-application and intra-application project level
• Automate the flow of data between interpretation, engineering and production applications
• Give all users access to the master data set directly within their application of choice

Land and Lease Master
• Define a blended, quality-controlled, corporate-wide lease master
• Associate lease and well production
• Monitor contractual drilling and production obligations to manage lease holdings
• Provide alerts to notify of potential expiry

Market Data/Pricing Hub
• Capture data from multiple sources including pricing, trade and benchmark data
• Complex curve creation and calculation capabilities
• IPV process automation

Market Intelligence
• Leverage public, third-party and proprietary sources as well as social media, web services and RSS feeds for contextual, historical and forecast interpretation
• Populate dashboards from corporate-wide data assets to reveal competitor activity and performance
• Peer comparisons on a multi-tier level
• Rule-based alert engine enables business decisions to be made quicker

Supply Chain
• Create a centralized view of company hierarchy, taxonomy and price curves
• Multi-function collaboration, across finance, accounting, planning and business groups
• Test hypotheses based on ‘what if’ scenarios
**Managed Service**

EDM is available as a managed service built on the Amazon Web Services (AWS) cloud. The managed service supports the following processes:

<table>
<thead>
<tr>
<th>Operations</th>
<th>Infrastructure</th>
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<tbody>
<tr>
<td>• Exception trend analysis</td>
<td>• BCP and DR testing</td>
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<td>• Exception automation</td>
<td>• Penetration testing</td>
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<td>• Security and access</td>
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<td>• Network monitoring</td>
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<td>• Managing actual exceptions</td>
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<td>• User admin and entitlement</td>
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<td>• Interface management</td>
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<td>• Performance tuning and archiving</td>
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<td>• App patches and upgrades</td>
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<td>• Annual EDM upgrade</td>
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<td>• Load balancing</td>
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<td>• Backups and DR</td>
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<td>• Windows and SQL patches/upgrades</td>
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The EDM managed service delivers the following benefits:

**Cost containment**
- Mitigate the cost, time and effort required for upgrades
- Reduce the fixed expenditure associated with hardware, applications and their management
- Free up resources to focus on revenue-generating activities

**Flexibility and scalability**
- Scale up (or down) your use of the cloud as your needs evolve
- Leverage off-site teams to introduce changes as required by the business

**Short time to market**
- Use a pre-built cloud environment to eliminate many of the time-consuming steps involved in a traditional deployment and achieve a greatly reduced time to market

**Global staffing and support**
- Access a global support team (follow-the-sun model) and strong security, backup and disaster recovery functionality provided by both IHS Markit and AWS

**Related products**

- **EDM Base**
  - direct access to IHS Markit’s North American data with integrated geospatial and business intelligence capabilities to support data visualization and analysis needs

- **Kingdom**
  - solution for managing, manipulating and visualizing integrated geological, geophysical and engineering data

- **Petra**
  - solution for geological interpretation and mapping

- **Harmony**
  - comprehensive engineering application for analyzing oil and gas well performance and evaluating reserves
About IHS Markit

IHS Markit (NYSE: INFO) is a world leader in critical information, analytics and expertise to forge solutions for the major industries and markets that drive economies worldwide. The company delivers next-generation information, analytics and solutions to customers in business, finance and government, improving their operational efficiency and providing deep insights that lead to well-informed, confident decisions. IHS Markit has more than 50,000 business and government customers, including 80 percent of the Fortune Global 500 and the world's leading financial institutions. Headquartered in London, IHS Markit is committed to sustainable, profitable growth.